

**BIOLOGY 478 – ANIMAL BEHAVIOR  
SPRING 2019**

**Instructor:**

Dr. Erin Clancey  
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Office Hours: Thursday 10:00-11:00AM or by appointment

**Course Information:**

Course & Credits: Biology 478, Animal Behavior, 3 credits  
Prerequisites: Biol 115 and 116, knowledge of simple algebra and statistics  
Delivery: In-class lectures and discussions

**Meeting Schedule:**

Tues/Thurs 2:00-3:15PM Engineering and Physics Building 214

**Course Materials:**

*Required Reading:*

Journal articles that accompany lectures will be posted on Blackboard.

*Supplemental Text Book:*

Animal Behavior: A Beginner's Guide by John A. Byers. One World Publications, 2013.

*Other Resources:*

Applied Animal Behavior at ABS - <http://www.animalbehaviorsociety.org/web/applied-behavior.php>

**Course Objectives and Learning Outcomes:**

Behavior is defined broadly as the observable output of an animal's nervous system; basically, the actions an animal performs. In general, animal behaviorists want to know 1) the mechanisms that produce behavior, 2) how behavior evolves, and 3) how behavior contributes to survival and reproductive success in the context of an animal's ecology. The goal of this course is to show you the answers, as they are currently understood, to these questions. In addition, this course offers some of the training needed to read and critically evaluate the behavior literature, and to conduct research in behavior.

**Grading Policy:**

Each student is expected to master the student learning outcomes, come to class prepared to discuss the scheduled reading, participate actively in course activities, meet all deadlines for graded assignments, and collaborate with fellow class members. Appropriate professional behavior demonstrating respect for fellow students and the instructor is expected.

**Term Paper:**

The goal of this term paper is to allow you to explore an area in animal behavior in more detail than we cover in this class. The form of this term paper will be a research proposal. Further instructions will be discussed in class and posted on the course webpage.

**Exams:**

There will be four 100-point exams during the semester where each exam is cumulative. Exams will cover material from lecture, assigned reading, and discussions. Make-up exams will only be allowed with a University approved absence.

**Course Grades:**

Exam 1	100
Exam 2	100
Exam 3	100
Exam 4	100
Term Paper	200
<b>Total</b>	<b>600</b>

<b>90 to 100%</b>	<b>A</b>
<b>80 to 89.99%</b>	<b>B</b>
<b>70 to 79.99%</b>	<b>C</b>
<b>60 to 69.99%</b>	<b>D</b>
<b>Below 60%</b>	<b>F</b>

**Late assignments will not be accepted and will receive zero grade points.** Any student disputing a grade for a specific assignment or exam must send me a written correspondence within 5 days of receiving the grade and explain why you think your grade should be changed.

**Academic Honesty:**

Following the UI Student Code of Conduct, academic dishonesty will not be tolerated. The consequence of any offense will be a F in the course without the opportunity to withdraw and letters sent to the Department Chair, College Dean, and Dean of Students.

**Class Schedule:**

<b>Week</b>	<b>Day</b>	<b>Date</b>	<b>Lecture Schedule</b>	<b>Assigned Reading</b> <small>(Chapters are not required)</small>	<b>Assignments Due</b>
1	Thurs	10-Jan	Introduction/Multiple Realities		
2	Tues	15-Jan	Biology of Behavior	Chapters 1 & 2	
	Thurs	17-Jan	Brains and Behavior	Catania (2017); Chapter 4	
3	Tues	22-Jan	Hormones and Behavior/Writing Proposals	Lim et al. (2004)	
	Thurs	24-Jan	Genetics of Behavior	Trut et al. (2009); Chapter 8	
4	Tues	29-Jan	Development	Greif and Siemers (2010); Chapter 5	

	Thurs	31-Jan	Adjusting Priorities /Review	Chapter 3	
5	Tues	5-Feb	<b>Exam 1</b>		
	Thurs	7-Feb	Evolution and Behavior	Brodie (1992)	<b>Reference 1</b>
6	Tues	12-Feb	Foraging	Catania (2012)	
	Thurs	14-Feb	Learning Part 1	Chapter 6	
7	Tues	19-Feb	Learning Part 2		
	Thurs	21-Feb	Cognition and Moving Through Space	Chapter 7	<b>Reference 2</b>
8	Tues	26-Feb	Social Organization/Review	Chapter 9	
	Thurs	28-Feb	<b>Exam 2</b>		
9	Tues	5-Mar	Eusociality/Game Theory	Burland et al. (2002)	
	Thurs	7-Mar	Communication	Rundus et al. (2007)	<b>Background and Hypothesis</b>
<b>10</b>	<b>Tues</b>	<b>12-Mar</b>	<b>SPRING BREAK</b>		
	<b>Thurs</b>	<b>14-Mar</b>	<b>SPRING BREAK</b>		
11	Tues	19-Mar	Signals for Survival (VIDEO)		
	Thurs	21-Mar	Sexual Behavior and Mating Systems	Chapter 11	
12	Tues	26-Mar	Mate Choice	Boulton and Shuker (2013)	
	Thurs	28-Mar	<i>Guest Lecture Adam Jones</i>		
13	Tues	2-Apr	Measuring Behavior/Review		
	Thurs	4-Apr	<b>Exam 3</b>		
14	Tues	9-Apr	Physiology and Behavior		
	Thurs	11-Apr	Applied Evolution		<b>Methods Outline</b>
15	Tues	16-Apr	Behavior and Conservation	TBA Journal Article	
	Thurs	18-Apr	Behavior and Infections Disease	TBA Journal Article	
16	Tues	23-Apr	Humans/Review	Chapter 12; Brummelman et al. (2015)	
	Thurs	25-Apr	<b>Exam 4</b>		
17	Tues	30-Apr	Work on Term Paper		
	Thurs	2-May	<b>Peer-Review</b>		
18	Tues	7-May	<b>Due by 5PM</b>		<b>Term Paper</b>